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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,560	09/15/2003	Naoyuki Hatano	9281-4635	9744
Gustavo Siller,	7590 06/06/2007 Gustavo Siller, Jr.		EXAMINER	
BRINKS HOFER GILSON & LIONE			CHEN, ALAN S	
P.O. BOX 1039 CHICAGO, IL			PAPER NUMBER	
00.100,12	00010		2182	
			MAIL DATE	DELIVERY MODE
			06/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/662,560	HATANO, NAOYUKI			
		Examiner	Art Unit			
		Alan S. Chen	2182			
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address			
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a solution of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period or to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. §-133).			
Status						
1)🖂	Responsive to communication(s) filed on <u>24 April 2007</u> .					
'=	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims		•			
5)□ 6)⊠ 7)□	Claim(s) 1 and 3-5 is/are pending in the application of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1 and 3-5 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers						
•	The specification is objected to by the Examine					
10)⊠ The drawing(s) filed on <u>01 June 2006</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (	under 35 U.S.C. § 119					
<ul> <li>12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a)  All b)  Some * c) None of:</li> <li>1.  Certified copies of the priority documents have been received.</li> <li>2.  Certified copies of the priority documents have been received in Application No</li> <li>3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
2) D Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08)	4)  Interview Summar Paper No(s)/Mail I 5)  Notice of Informal				
Pape	er No(s)/Mail Date	6) 🔲 Other:				

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## **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 04/24/2007 has been entered.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1 and 3-5 are rejected under 35 U.S.C. 102(e) as being anticipated by US Pat. No. 6,732,205 to Kamihara et al. (*Kamihara*).
- 4. Per claim 1, Kamihara discloses a communication control device (Fig. 4) that controls data communication between a host computer and a peripheral device (Column 18, lines 17-25, control device is implemented in peripheral device that communicates with host over USB, also see BACKGROUND), comprising: first buffer memory that stores data to be sent to the host computer (Fig. 4, element 64); second buffer memory

that stores data outputted from the peripheral device (Fig. 4, element 12); and a control unit (Fig. 4. element 60) that is operable to generate a resume signal that is output from the peripheral device to the host (Fig. 4, DSTRB signal indicates DOUT is valid; Column 9, lines 20-22), which is operable to generate a transmission approval command that is transferred to the peripheral device (Fig. 4, element 60, state machine and determination device use have various signaling commands that enable transfer of data from one buffer to another), wherein the control unit is operable to transfer the data stored in the second buffer memory to the first buffer memory after receiving the transmission approval command approving data transmission from the peripheral device to the host computer (Fig. 4, data is transferred from buffer, element 12, to buffer element 64), wherein the control unit is operable to transmit data from the first buffer memory to the host computer only after the transmission approval command is received from the host in response to the resume signal (the necessary signaling must occur for correct operation of the buffers), wherein the first buffer memory and the second buffer memory are FIFO buffers (Column 7, lines 44-54 and Column 8, lines 4-10 disclose the elastic buffer being a FIFO, the secondary buffer receiving data from the elastic subsequently also being a FIFO buffer).

- 5. Per claim 3, Kamihara discloses claim 1, Kamihara further discloses the second buffer being a multi-stage FIFO buffer (Fig. 4, buffer has at least two stages, i.e., elements 50 and 52).
- 6. Per claim 4, Kamihara discloses claim 1, Kamihara further discloses the data communication is performed using a USB line (see Background).

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7. Per claim 5, Kamihara discloses claim 1, Kamihara further discloses the peripheral device includes the first and second buffer memory (*Column 18, lines 17-25 disclose peripheral device implementing the data control device shown in Fig. 4*).

## Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Patents and patent related publications are cited in the Notice of References Cited (Form PTO-892) attached to this action to further show the state of the art with respect to multiple pipelined buffers.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alan S. Chen whose telephone number is 571-272-4143. The examiner can normally be reached on M-F 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim N. Huynh can be reached on 571-272-4147. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ASC 05/31/2007

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